FILE MANAGEMENT SYSTEM

Submitted by

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Stream: ECE
Subject: Programming for Problem Solving using C
Subject Code: ESC103(Pr.)
Department: Basic Science and Humanities

Under the supervision of
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Academic Year: 2022-26

PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE SECOND SEMESTER

**DEPARTMENT OF BASIC SCIENCE AND HUMANITIES
INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA**

CERTIFICATE OF RECOMMENDATION

We hereby recommend that the project prepared under our supervision by **Pratik Chakraborty,** entitled **FILE MANAGEMENT SYSTEM** be accepted in partial fulfillment of the requirements for the degree of partial fulfillment of the second semester.

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Head of the Department   Project Supervisor
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1   Introduction

1.1 <u>Objective:-</u>

The main objective of this project is to develop a file management system in which can create, modify or delete a file.

1.2 <u>Organization of the Project</u>

The project is organized into 3 parts or 3 cases.
1) In the first case the program runs and creates a txt file.
2) In the second case we can modify the said file.
3) In the third case we can delete the file.
4) The user can choose what to do from the above options.

1.3 <u>Variable, Functions, Statements descriptions:-</u>

1) int,char etc common variables are used to enter the number and text input
2) Other than that If else, switch case etc are used to determine the output of the user
3) printf, scanf is used to take user input and print it.

2   Programs

```
#include <stdio.h>
#include <stdlib.h>

int main() {
    int choice;
    char filename[50];
    FILE *fp;

    do {
        printf("Select an option:\n");
        printf("1. Create a file\n");
        printf("2. Delete a file\n");
        printf("3. Modify a file\n");
        printf("4. Exit\n");
```

```c
        scanf("%d", &choice);

        switch(choice) {
            case 1:
                printf("Enter the name of the file to create: ");
                scanf("%s", filename);
                fp = fopen(filename, "w");
                if (fp == NULL) {
                    printf("Error creating file\n");
                } else {
                    printf("File created successfully\n");
                    fclose(fp);
                }
                break;
            case 2:
                printf("Enter the name of the file to delete: ");
                scanf("%s", filename);
                if (remove(filename) == 0) {
                    printf("File deleted successfully\n");
                } else {
                    printf("Error deleting file\n");
                }
                break;
            case 3:
                printf("Enter the name of the file to modify: ");
                scanf("%s", filename);
                fp = fopen(filename, "a");
                if (fp == NULL) {
                    printf("Error modifying file\n");
                } else {
                    printf("File modified successfully\n");
                    fclose(fp);
                }
                break;
            case 4:
                printf("Exiting program...\n");
                break;
            default:
                printf("Invalid choice\n");
        }
```
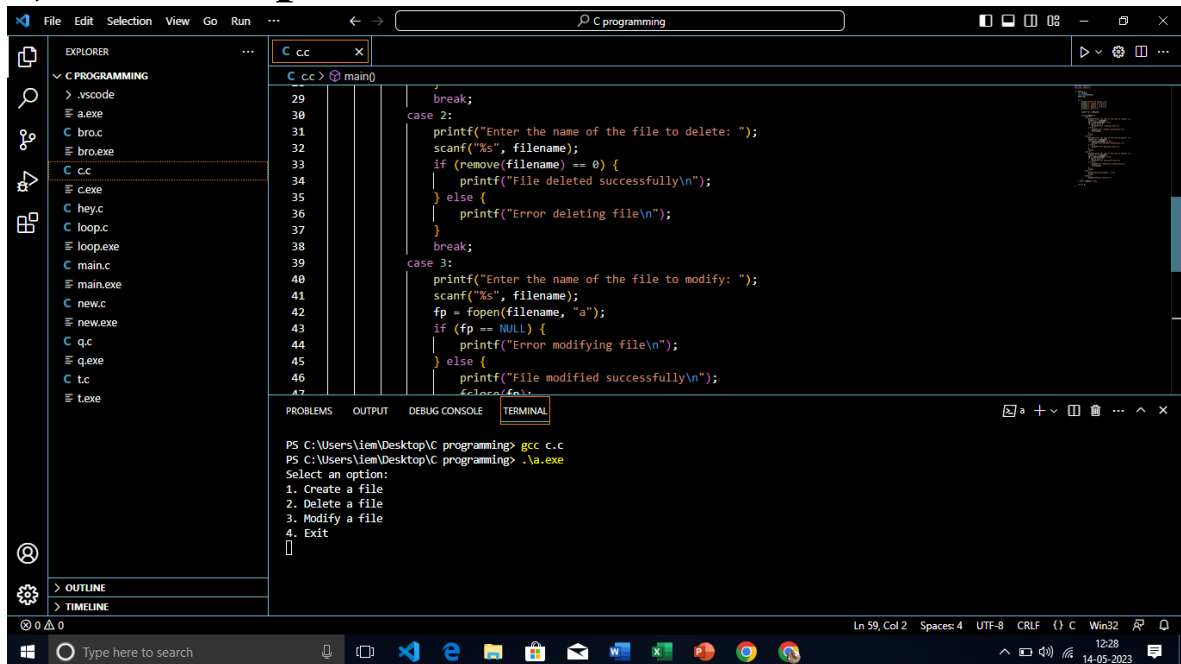
```
    } while (choice != 4);

    return 0;
}
```

3)   Outputs

Screenshot 1 (top):
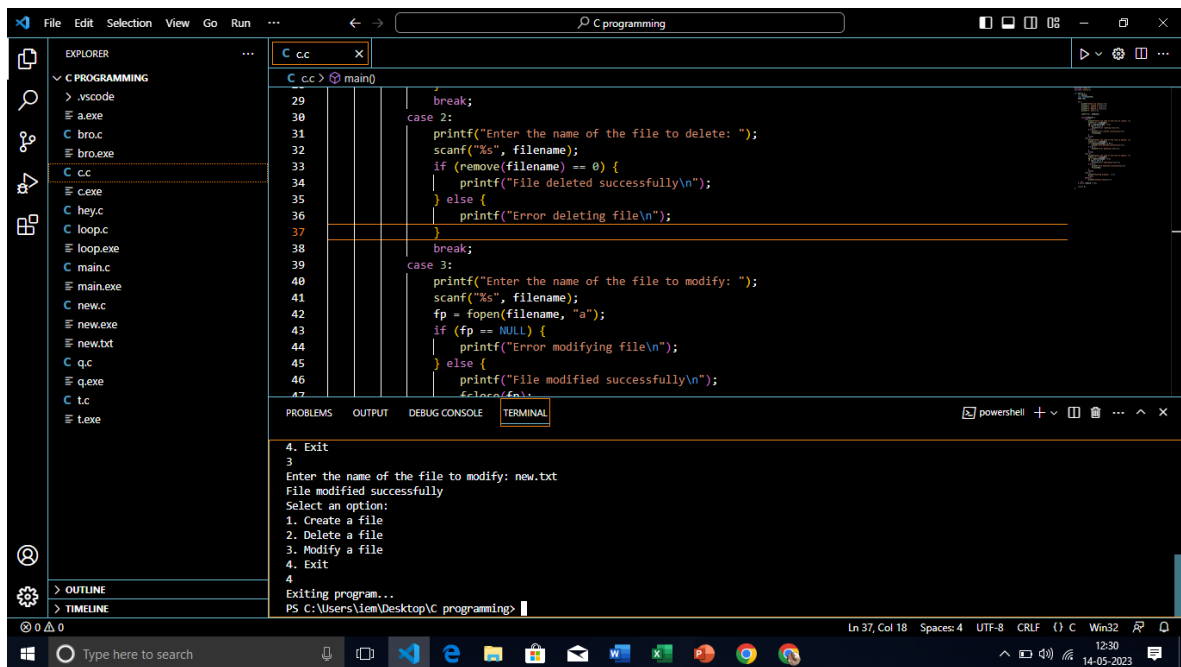
```
29              break;
30          case 2:
31              printf("Enter the name of the file to delete: ");
32              scanf("%s", filename);
33              if (remove(filename) == 0) {
34                  printf("File deleted successfully\n");
35              } else {
36                  printf("Error deleting file\n");
37              }
38              break;
39          case 3:
40              printf("Enter the name of the file to modify: ");
41              scanf("%s", filename);
42              fp = fopen(filename, "a");
43              if (fp == NULL) {
44                  printf("Error modifying file\n");
45              } else {
46                  printf("File modified successfully\n");
47                  fclose(fp);
```

Terminal:
```
PS C:\Users\iem\Desktop\C programming> gcc c.c
PS C:\Users\iem\Desktop\C programming> .\a.exe
Select an option:
1. Create a file
2. Delete a file
3. Modify a file
4. Exit
```

Screenshot 2 (bottom):

```
29              break;
30          case 2:
31              printf("Enter the name of the file to delete: ");
32              scanf("%s", filename);
33              if (remove(filename) == 0) {
34                  printf("File deleted successfully\n");
35              } else {
36                  printf("Error deleting file\n");
37              }
38              break;
39          case 3:
40              printf("Enter the name of the file to modify: ");
41              scanf("%s", filename);
42              fp = fopen(filename, "a");
43              if (fp == NULL) {
44                  printf("Error modifying file\n");
45              } else {
46                  printf("File modified successfully\n");
47                  fclose(fp);
```

Terminal:
```
2. Delete a file
3. Modify a file
4. Exit
1
Enter the name of the file to create: new.txt
File created successfully
Select an option:
1. Create a file
2. Delete a file
3. Modify a file
4. Exit
```